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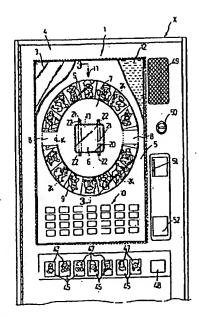
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(54) [発明の名称] ルーレット遊技機

(57)【要約】

[目的] 当たり役の発生に対する期待感を色々な角度 から抱かせ、遊技者の興奮度を一層磁上げることができ ること。



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【特許請求の範囲】

【酬求項1】 関閉尿の裏倒あるいは箱体内に固定的に取り付けられる支持部材と、この支持部材に取り付けられた風動モータと、この風動モータの出力軸に取り付けられ、かつ、開閉尿の直接型に形成された現状第2関ロ部に位置あるいは対面する環状板を有する回転体と、この回転体の前記環状板の表面に設けられた当たり区園の当たり指標を有し、かつ、開閉尿の透明板の一個面に貼れる印刷シートと、前配蓋技数の第1関ロ部に依め込まれた液品表示器とを備えるルーレット遊技機。

【翻求項2】 翻求項1に於いて、回転体は、現状板と、この現状板の裏側に固定的に取り付けられ、かつ、全体とし蛍光灯の傘骨あるいはザルの骨髄みの如く形成された傘状骨組み体とから成ることを特徴とするルーレット選样機。

【請求項3】 関閉原の裏側あるいは箱体内に固定的に取り付けられる支持部材と、この支持部材に取り付けられた駆動モータと、この駆動モータの出力輪に取り付けられ、かつ、関閉原の遊技盤に形成された異状第2関口部に位置あるいは対面する環状板を有する回転体と、この回転体の前記環状板の表面に設けられた当たり区面の当たり指標が設けられ、かつ、関閉原に固定的に装着された透明板と、前配道技盤の第1関口部に嵌め込まれた被品表示器とを個えるルーレット遊技機。

【耐求項4】 請求項3に於いて、回転体は、現状板と、この現状板の裏側に固定的に取り付けられ、かつ、全体とし虽光灯の傘骨あるいはザルの骨積みの如く形成された傘状骨積み体とから成ることを特徴とするルーレット遊技協。

【発明の詳細な説明】

[0000]

【産業上の利用分野】本発明は、各種の健康ランド、ゲームセンター等に設置されるルーレット遊技機に関する。

[0002]

【従来の技術】従来、ルーレット遊技模は、適宜形状に 形成された相体の前面関ロ部に直接模本体が関田可能に 枢君され、前記登技機本体は、少なくともアクリル板、 ガラス板等の透明板を有する関田原と、前記透明板に貼 着され、かつ、文字、図研等でルーレットゲームの容 が設けられた印刷シート、この印刷シートの裏切に取付 けられ、かつ、弦印刷シートに跨された各仕切りあるい は区画に対応するように円岡方向に複数団の光通過孔を 有する遊技整と、前記各光通過孔にそれぞれ臨むように 遊技盤の裏側に配数された複数圏の点型ランプと、これ らの点類ランプとそれぞれ電気的に接続し、かつ、各点 型ランプの点域を遊技者の視覚に対してあたかも光が回 転走行しているかのように頂次点域させる中央処理装置 とを個えていた。

[0003] しかして、従来のルーレット遊技協は、

「印刷シートに応された各仕切りあるいは区西に対応するように円周方向に複数関の光通過孔を有する遊技盤と、前紀各光通過孔にそれぞれ臨むように遊技盤の食餌に配設された複数関の点盤ランプ」とを朝成変件としているので、実際のルーレットゲームの如く当たり回転盤を回転させる。あるいは現実に何らかの回転盤を回転させると音う要素はなく、各点限ランプの点域を遊技者の視覚に対してあたかも光が回転走行しているかのように順次点域させるにすぎないので、視覚上今一歩もの足りなさがあった。また複数関の点域ランプを遊技盤の各光通過孔にそれぞれ臨むように配改しなければならないので、製作が容易でないと同時に、コスト高になると言う欠点があった。

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[0004]

【発明が解決しようとする課題】本発明は以上のような 従来の欠点に鑑み、遊技者の複兌に対し、より一歩現実 のルーレットゲームのイメージに接近させることができ、また製作が容易でかつ安価であるルーレット遊技機 を得ることである。

0005

【課題を解決するための手段】本発明のルーレット遊技 根は、明閉扇の裏関あるいは箱体内に固定的に取り付け られる支持部材と、この支持部材に取り付けられた風動 モータと、この駆動モータの出力軸に取り付けられた の力、開閉扇の遊技盤に形成された環状第2関口部に位置 あるいは対面する環状板を有する回転体と、この回転体 の前配環状板の表面に設けられた当たり区面の当たり相 標を有し、かつ、開閉扇の透明板の一個両に貼着される 印刷シートと、前配遊技盤の第1関口部に嵌め込まれた 被品表示器とを備える備えることを特徴とする。

[0007] また上記の構成要件を主要部とし、回転体の前記頭状板の表面に設けられた当たり区画の基準となる当たり指数は、印刷シートではなく、開閉原に固定的に接着された透明板の適宜箇所に設けられている。

[8000]

(作用)ます遊枝盤の第1限口部に核晶表示器を取り付ける。次に支持部材の取り付け枠部内に緊動モータを装着する。次に駆動モータの出力的に回転体を取り付ける。一方、支持部材の取り付けバーにブリント基板を装着する。そして、液晶表示器、駆動モータ等をはブリント基板の中央処理装置に接続する。

【0009】このように支持部材に駆動モータと回転体とをそれぞれ取り付けた後に、支持部材を遊技盤あるいは関閉原の裏側に固定する。そうすると回転体の環状板は遊技盤の第2間口部並びに印刷シートの第2窓部に対

50 面する。

【0011】回転体が停止した時ルーレットゲームが当 たりならば直ちに液晶表示器にルーレットゲームとは異 なるゲームが展開される。

[0012]

【実施例】以下、図面に示す実施例により、本発明を詳 細に説明する。

【0013】図1は、ルーレット遊技機Xの主要部の外 **規を正面から示している。1は査宜形状に形成された箱** 体 2 の前面開口部に開閉可能に根着された遊技機本体で ある.

【0014】しかして、遊技機本体1 についてさらに詳 しく説明すると、3はアクリル板、ガラス板等の透明板 で、この透明板3は矩形状に形成され、箱体2の前面開

【0015】5はこの透明板3の裏面に貼着されかつ後 述する遊技盤に形成された各関口部に対応して複数関の 透明あるいは切欠状の窓部を有する印刷シートである。

【0016】ここで印刷シート5の窓部について説明す ろ。6は中心部の矩形状第1窓部で、この第1窓部6の 外側には中央部の非窓部7と接続する2個の接続部8、 8を除いて現状第2窓部9が形成されている。 環状第2 窓部9は視覚上全体的なイメージとして「環状」である 1 で示すように2個の強状部が上下に対称的に形成され ている。接続部8、8は、本実施例では左右に2個設け られているが、少なくとも1個あれば良い。

【0017】そこで、環状第2窓部9はルーレットゲー ムを彷彿させることができるのであればその形状は特に 問わない。従って、相円形、多角形等窓部が無端状に形 成されているのであれば「泉状」の意味に相当する。

[00]8]10は印刷シート5の下部に複数個併設形 成されたメダル数表示用の第3窓部である。

緑部の適宜箇所に設けられた矢印、点、線などの当たり 指棋である。

【0020】ところで、本実施例では、当たり指数1.1 は印刷シート5の適当な箇所に設けられているが、必ず しも印刷シートに設ける必要がなく、例えば印刷シート 5を透明板3の裏側に貼着した際、当たり指標11が現 状窓部9の外側周録部に位置するように透明板3の一個 面に設けても良い。

【0021】12は中央邸に上記矩形状第1窓邸6に対

を取り囲んで外側に上記駅状第2窓部9に対応する第2 閉口部14を有する遊技盤である。しかして、この遊技 盤12の第2間口部14の「環状」の意味合いも上述し た印刷シート5の場合と同一である。従って、第1開口 部1.3が形成された中央部16はその余の部分17と左 右の連結部18、18を介して一体的に連設している。 また並技盤12の下部にも前記第3窓部10に対応する メダル数表示用の第3期口部15が複数個併設形成され ている。なお、遊技盤12は木材、合成樹脂材等適当な 10 材質で透明板3の大きさと略同一に形成されている。

【0022】20は遊技盤12の第1開口部13に端面 ハット型形状の複数本の取付け片21並びに複数値の固 着具22を介して固定的に嵌め込まれたカラーの液晶表 示器である。この液晶表示器20の前面は第1関口部1 3に嵌め込まれると、印刷シート5の第1窓邸6に位置

【0023】23は遊技盤12の現状第2開口部14並 びに印刷シート5の現状第2窓部9に対面し、かつ、表 面に文字、記号、図形などの当たり仕切りあるいは当た 口部に枢勃された関閉原4の関口部に固定的に取り付け 20 り区面24が複数観殺けられた現状板25を有する回転

[0024] この回転体23は、軽量化を図るため、図 6でし示すように上記現状板25と、この現状板25の 裏面に固定的に取り付けられ、かつ、全体とし蛍光灯の **傘骨あるいはザルの骨組みの如く形成された傘状骨組み** 体26とから成る。しかして、前記傘状骨組み体26 は、中心孔27を有する円盤状の中心盤邸28と、この 中心盤郎28から放射状に延設された複数本の細長状ア 一ム郎29と、これらのアーム部29の各先端部を結ぶ という意味で、実際には前配接統部8、8との関係で図 30 異状板用の2個の取り付けリング部30と、これらの取 り付けリング部30と中心部28との間に設けられた箱 強用リング部31から成る。

【0025】そして、本実施例では、回転体の揺れ防止 を図るため、さらに傘状骨組み体26の各アーム部29 の内側には複数関の空気流通孔32を有する多角形の揺 れ止め防止片3.3がそれぞれ固定的にも設けられてい

【0026】次に35はコ字型状の支持部材で、この支 特部材35は対向する両端部に取付け片36を有し、こ [0019] 11は印刷シート5の現状窓部9の外倒岡 40 れらの取付け片36を介し遊技盤12又は開閉原4の裏 倒に適宜に取り付けられる。 なお、この支持部材35は 場合によっては箱体2内に適宜に取りとり付けても良

[0027] しかして、支持部材35の中央部37の内 壁面には風動モータ38用の取り付け枠邸39が設けら れ、該取り付け枠部39内に駆動モータ38が固定的に 内装される。一方、支持部材35の中央部37の外壁面 には図示しないプリント基板用の取り付けパー40が所 要問題を有して設けられていると共に、前記中央郎37 応する第1関ロ部13を有し、かつ、該第1関ロ部13 SD には複数圏の点域ランブ装着用の孔41が形成されてい

[0028] なお、前記駆動モータ38の出力輸は図5 で示すように前記取り付け枠部39から突出し、この突 出した出力輪に上述した回転体23が取り付けられる。

[0029] 次に45は箱体2あるいは開閉豚4の適宜 箇所に設けられた複数個の賭けポタンで、これらの貼け ポタン45には回転体の現状板25の表面に描かれた各 図柄45に対応するペット用図柄47が描かれている。

[0030] 48は賭けポタン45の近くに設けられた スタートポタンである。開閉原4にはその他スピーカー 10 49、施健装置50、メダル投入口51、メダル取り出 し口52等が設けられている。

[0031] 上記構成に於いては、まず直技盤12の第 1閉口部13に液晶表示器20を取り付ける。次に支持 部材35の取り付け枠部39内に駆動モータ38を装着 する。次に駆動モータ38の出力粒に回転体23を取り 付ける。この場合回転体23は中心盤部28の中心孔2 7を介して駆動モータ38に取り付けられる。一方、支 持部材35の取り付けパー40にブリント基板を装着す る。そして、液晶表示器20、駆動モータ38等はブリ 20 ント基板の中央処理装置に電気的に接続される。

[0032] このように支持部材35に駆動モータ38 と回転体23とをそれぞれ取り付けた後に、支持部材3 5を遊技盤12あるいは開閉扉4の裏側に固定する。そ うすると回転体23の現状板25は遊技盤12の第2期 口部14並びに印刷シート5の第2窓部9に対面する。

【0033】しかして、ルーレット遊技機Xに電源を入 れると被晶表示器20の表示部にルーレットゲームとは 異なるゲームが現れる。本実施例では複数個の窓枠部と 疑似のリールが現れる。

【0034】そこで、遊技者がコインまたはメダルを遵 技機本体 1のメダル投入口51に投入し、特定図柄を選 択して貼け (ペット) ポタン45を押した後、スタート ポタン48を押すと、駆動モータ38の駆動力により回 伝体23が回転する。回転体23の回転スピードは中央 処理装置により制御され、次第にゆっくりと回転しなが ら最後に停止する。

【0035】回転体23が停止した時今仮に当たり指標 11の所に現状板25の賭けた絵柄が来たとすると、直 ちに液晶表示器20の各窓枠部内の各リールがそれぞれ 如 13…第1関口部 独自に変動する。そして、各リールが疑似的に変動した 後に該スロットマシンゲームに当たりが発生すると、ル ーレットゲームの当たりにスロットマシンゲームの当た りがプラスされる、その時のメダルの合計数が遊技機本 体1の第3窓郎10に図示しない点位ランプにより表示 tha.

[0036]

【発明の効果】以上の説明から明らかなように本発明に あっては、次に列挙するような効果がある。

(1) 回転体の当たり区面を有する環状板が直接盤の環 50

状第2関口部に位置あるいは対面しているので、遊技者 の視覚に対し、より一歩現実のルーレットゲームのイメ ージを訴えることができる。

(2) 従来のように複数個の点域ランプを遊技盤の各光 **通過孔にそれぞれ臨むように配設する必要がないので、** 製作が容易であると同時に、 安価制作することができ

(3) 直技盤の第1開口部に液晶表示器を設けたので、 該液晶表示器に遊技機本体のルーレットゲームに他の異 なるゲームを加味して展開させることができる。 したが って、遊技者に対して、当たり役の発生に対する斑符感 を色々な角度から抱かせ、遊技者の興奮度を一層盛上げ ろことができる.

(4) 回転体が、環状板と、この現状板の裏側に固定的 に取り付けられ、かつ、全体とし蛍光灯の傘骨あるいは ザルの骨組みの如く形成された傘状骨組み体とから成る 実施例の場合は、回転体の軽量化を図ることができると 共に、空気抵抗を少なくすることができる。

【図面の簡単な説明】

【図1】本発明のルーレット遊技機の主要部の外観を正 面から示す一部切欠の説明図。

【図2】本発明のルーレット遊技機の主要部の外観を背 面から示す説明図。

[図3] 図1の3-3線断面図。

【図4】本発明遊技盤の概略説明図。

【図5】本発明の要部の斜視図。

【図6】本発明の回転体の説明図。

【符号の説明】

X…ルーレット遊技機、

30 1…遊技機本体、

2…箱体、

3 ---透明板、

5…印刷シート、

6…第1窓部。

8…接続邸、

9…第2窓邸、

10…第3麼趣、

11…当たり抱係、

12---遊技盤、

14…第2閱口紙

15…第3期口邸、

16…中央部、

18…独特部。

20…故品表示器、

23…回転体

25…與状板、

26…骨組み体、

28…中心監部、

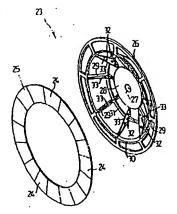
33…揺れ止め防止片。

特開平6-254208 (5) 39…取り付け枠部、 . 35…支持部材. 45…賭けポタン。 38…駆動モータ、 [2] 2] (図1) [图5] [図4] [図3]

(6)

特開平6-254208

[図6]



-38-

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Applicant(s): K.K. Eable Inventor(s): Nao INOUE

Representative: Patent Attorney, Mitsuyas MIURA

Title of the Invention: Roulette game machine

Abstract [OBJECT]

It is possible to allow the player to enhance its expectation from various points of view regarding the occurrence of winning prize, thereby more enhancing excitement of the player.

## [CONSTRUCTION]

A roulette game machine comprising: a support member fixedly mounted on a back side of an opening and closing door or in a housing; a driving motor mounted in said support member; a rotating member mounted on an output shaft of said driving motor and having an annular plate that is located in or faces towards an annular second opening formed in a game board of said opening and closing door; a print sheet having a winning indicator indicating a winning section provided on the surface of said annular plate of said rotating member and being bonded on one side of a transparent plate of said opening and closing door; and a liquid crystal display fitted in a first opening of said game board.

### **CLAIMS**

#### Claim 1

A roulette game machine comprising: a support member fixedly mounted on a back side of an opening and closing door or in a housing; a driving motor mounted in said support member; a rotating member mounted on an output shaft of said driving motor and having an annular plate that is located in or faces towards an annular second opening formed in a game board of said opening and closing door; a print sheet having a winning indicator indicating a winning section provided on the surface of said annular plate of said rotating member and being bonded on one side of a transparent plate of said opening and closing door; and a liquid crystal display fitted in a first opening of said game board.

## Claim 2

The roulette game machine according to claim 1, wherein the rotating member comprises an annular plate and an umbrella-like frame that is fixedly mounted to the back side of the annular plate and formed so as to have an entire appearance similar to a frame of a shade of a fluorescent lamp or a frame of a bamboo basket.

A roulette game machine comprising: a support member fixedly mounted on a back side of an opening and closing door or in a housing; a driving motor mounted in said support member; a rotating member mounted on an output shaft of said driving motor and having an annular plate that is located in or faces towards an annular second opening formed in a game board of said opening and closing door; a transparent plate having a winning indicator indicating a winning section provided on the surface of said annular plate of said rotating member and being fixedly mounted to the opening and closing door; and a liquid crystal display fitted in a first opening of said game board.

#### Claim 4

The roulette game machine according to claim 3, wherein the rotating member comprises an annular plate and an umbrella-like frame that is fixedly mounted to the back side of the annular plate and formed so as to have an entire appearance similar to a frame of a shade of a fluorescent lamp or a frame of a bamboo basket.

Detailed Description of the Invention [0001]

Technical Field

This invention relates to roulette game machines installed in a variety of health

spa facilities, amusement arcades, etc.
[0002]

Prior Arts

A conventional roulette game machine includes a housing formed into an appropriate shape having a front opening, and a game machine body pivotally movably mounted in the housing through the front opening in such a manner as to be able to be opened and closed. The game machine body includes an opening and closing door having at least a transparent plate such as an acrylic plate or a glass plate, a print sheet bonded to the transparent plate, which indicates the content of the roulette game with letters, designs, etc., a game board mounted on the back side of the print sheet and having plural light passing holes disposed in the circumferential direction so as to correspond in position to sections or divided areas indicated on the print sheet, plural blinking lamps disposed on the back side of the game board so as to respectively face the light passing holes, and a central processing unit electrically connected to these lamps so as to turn on/off the lamps in a sequential manner, allowing the light to be seen by a game player as it is revolving.

[0003] The conventional roulette game machine necessarily includes the game board having the plural light passing holes disposed in the circumferential direction to correspond in position to the sections or divided areas indicated on the print sheet, and the plural blinking lamps disposed on the back side of the game board so as to respectively face the light passing holes. This means that the conventional roulette game machine does not have a function of rotating a board having a winning section in a similar manner as an actual roulette game, or actually rotating a board, not exceeding the function of merely turning on/off the lamps in a sequential manner, allowing the light to be seen by a game player as it is revolving, thus providing insufficient visual effect. Also, the necessity of disposing the plural lamps so as to respectively face the light passing holes causes disadvantages of complicating assembling works and increasing costs.

[0004]

Problems to be Solved by the Invention

In consideration of the problems associated with the conventional roulette game machine, it is an object of the present invention to provide a roulette game machine that is capable of providing an impression closer to an actual roulette game, being easily assembled and being provided at a low cost.

[0005]

#### Means to Solve the Problems

A roulette game machine of this invention is characterized in that it includes a support member fixedly mounted on a back side of an opening and closing door or in a housing; a driving motor mounted to the support member; a rotating member mounted to an output shaft of the driving motor and having an annular plate that is located in or faces an annular second opening formed in a game board of the opening and closing door; a print sheet having a winning indicator indicating a winning section provided on the surface of the annular plate of the rotating member and being bonded on one side of a transparent plate of the opening and closing door; and a liquid crystal display fitted in a first opening of the game board. [0006] In the above arrangement, the rotating member is characterized in that it includes the annular plate and an umbrella-like frame that is fixedly mounted to the back side of the annular plate and formed so as to have an entire appearance similar to a frame of a shade of a fluorescent lamp or a frame of a bamboo basket. [0007] The winning indicator as an essential element of the above arrangement, which acts as a reference of the winning section provided on the surface of the annular plate, may be provided not on the print sheet, but on an appropriate portion of the transparent plate fixedly mounted to the opening and closing door. [8000]

#### **Function**

The liquid crystal display is first mounted to the first opening of the game board. The driving motor is then mounted inside of a mounting frame of the support member. The rotating member is then mounted to the output shaft of the driving motor. On the other hand, a printed-circuit board is mounted to mounting bars of the support member. The liquid crystal display, the driving motor, etc., are connected to the central processing unit of the printed-circuit board.

[0009] After the driving motor and the rotating member are respectively mounted to the support member, the support member is secured to the back side of the game board or the opening and closing door. With this, the annular plate of the rotating member faces the second opening of the game board and a second window portion of the print sheet.

[0010] The roulette game machine is turned on to display on a display portion of the liquid crystal display a game different from a roulette game. A player then inserts a game medal into the game machine body through a medal insert portion, presses a bet button based on the selected figure or design, and then presses a start button to rotate the rotating member by the driving power of the driving motor.

[0011] When the game player wins the roulette game at the time that the rotating member has stopped, a game different from the roulette game is immediately displayed on the liquid crystal display.

[0012]

#### **Embodiments**

Hereinafter, the detailed description will be made for the present invention with reference to the embodiments as illustrated.

[0013] Fig. 1 illustrates an outer appearance of an essential part of a roulette game machine X as viewed from the front side. A reference numeral 1 represents a game machine body pivotally movably mounted to a front opening of a housing 2 of an appropriate shape.

[0014] In detailed description on the game machine body, a reference numeral 3 represents a transparent plate such as an acrylic plate or a glass plate. This transparent plate 3 is formed into a rectangular shape and fixedly mounted to an opening of an opening and closing door 4 that is pivotally mounted to the front opening of the housing 2.

[0015] A reference numeral 5 represents a print sheet that is bonded to the back side of the this transparent plate 3 and has plural transparent or cut-out windows disposed corresponding in position to respective openings formed in a game board (hereinafter described).

[0016] Now, the description will be made for window portions of the print sheet 5. A reference numeral 6 represents a rectangular first window portion in a center. An annular second window portion 9 is formed on the outer side of the first window portion 6 with two joint portions 8, 8 that connect to a non-window portion 7 of the center. When referring to the annular window portion, this "annular" is meant an annular shape in the entire image, and as illustrated in Fig. 1, two arc portions are symmetrically arranged above and below with reference to the joint portions 8, 8. The joint portions 8, 8 are arranged right and left in this embodiment, but it is enough to arrange at least one joint portion.

[0017] As long as the annular second window portion 9 can produce a virtual image of a roulette game, its shape is not necessarily limited. An elliptical or polygonal window portion endlessly arranged may therefore be equivalent to the shape of "annular".

[0018] A reference numeral 10 represents a third window portion that has plural windows aligned each other on the lower side of the print sheet 5.

[0019] A reference numeral 11 represents a winning indicator represented by an

arrow, a dot, a line, etc., arranged at a proper portion along the outer peripheral edge of the annular window portion 9 of the print sheet 5.

[0020] In this embodiment, the winning indicator 11 is arranged at a proper portion of the print sheet 5; but it is not necessary to arrange it on the print sheet 5. For example, the winning indicator 11 may be arranged on one side of the transparent plate 3 so as to be located on the outer peripheral edge of the annular window portion 9 when the print sheet 5 has been bonded to the back side of the transparent plate 3.

[0021] A reference numeral 12 represents a game board that has a center portion having a first opening 13 corresponding in position to the rectangular first window portion 6 and a second opening 14 corresponding in position to the annular second window portion 9 that surrounds the first opening 13 and is located on the outer side of the first opening 13. The shape of the second opening 14 represented by "annular" is similar to the shape for the print sheet 5 as mentioned above. Thus, a center portion 16 defining the first opening 13 is formed integral with a residual portion 17 through right and left joint portions 18, 18. On the lower side of the game board 12 are also provided a third opening portion 15 for displaying the number of the medals, having plural openings corresponding in position to the third window portion 10. The game board 12 is made of wood, synthetic resin, etc., and has a size substantially the same as the size of the transparent plate 3. [0022] A reference numeral 20 represents a color liquid crystal display that is fixedly fitted in the second opening 13 by plural mounting pieces 21 having a hat-like shape in section and plural locking members 22. The front side of the liquid crystal display 20 is located in the first window portion 6 when the liquid crystal display 20 has been fitted in the first opening 13.

[0023] A reference numeral 23 represents a rotating member that faces the annular second opening 14 of the game board 12 and the annular second window portion 9 of the print sheet 5, and has an annular plate 25 that is provided thereon with plural winning sections represented by letters, symbols, designs, etc.

[0024] In order to reduce the weight, the rotating member 23, as illustrated in Fig. 6, comprises the annular plate 25 and an umbrella-like frame 26 that is fixedly mounted to the back side of the annular plate 25 and formed so as to have an entire appearance similar to a frame of a shade of a fluorescent lamp or a frame of a bamboo basket. The umbrella-like frame 26 comprises a circular-plate-like center board 28 having a center hole 27, plural elongate arms 29 radially extending from the center board 28, two mounting rings 30 for the annular plate, which connect

the ends of the arms 29 each other, and a stiffening ring 31 provided between the mounting rings 30 and the center board 28.

[0025] In this embodiment, for prevention of vibrations of the rotating member, on the inner side of each of the arms 29 of the umbrella-like frame 26 are fixedly provided a vibration prevention piece 33 that has a polygonal shape with plural air passing holes 32.

[0026] A reference numeral 35 represents a support member having a U-shape. This support member 35 has at its opposite ends mounting pieces 36, through which the support member 35 is appropriately mounted to the back side of the game board 12 or the opening and closing door 4. This support member 35 may be mounted inside of the housing 2 according to needs and circumstances.

[0027] The support member 35 has a center portion 37 provided on its inward side with a mounting frame member 39 for a driving motor 38. The driving motor 38 is fixedly mounted inside the mounting frame member 39. On the other hand, mounting bars 40 for a printed circuit board are attached to the outward side of the center portion 37 of the support member 35, as being arranged with a given distance from each other, and the center portion 37 has a hole 41 for mounting plural blinking lamps.

[0028] As illustrated in Fig. 5, an output shaft of the driving motor 38 projects away from the mounting frame member 39, and the rotating member 23 is mounted to this projected portion of the shaft.

[0029] Reference numerals 45 represent plural bet buttons provided at appropriate portions of the housing 2 or the opening and closing door 4. On these bet buttons 45 are illustrated designs 47 for betting, which respectively correspond to designs 46 illustrated on the surface of the annular plate 25 of the rotating member.

[0030] A reference numeral 48 represents a start button provided near the bet buttons 45. The opening and closing door 4 is additionally provided with a speaker 49, a locking device 50, a medal insert portion 51, a medal retrieving portion 52, etc.

[0031] In the above arrangement, the liquid crystal display 20 is first mounted to the first opening 13 of the game board 12. Then, the driving motor 38 is mounted inside the mounting frame member 39 of the support member 35. The rotating member 23 is then mounted to the output shaft of the driving motor 38. In this case, the rotating member 23 is mounted to the driving motor 38 through the center hole 27 of the center board 28. On the other hand, the printed circuit board

is mounted to the mounting bars 40 of the support member 35. The liquid crystal display 20, the driving motor 38, etc. are electrically connected to a central processing unit of the printed circuit board.

[0032] After mounting the driving motor 38 and the rotating member 23 to the support member 35, the support member 35 is secured to the back side of the game board 12 or the opening and closing door 4. Thus, the annular plate 25 of the rotating member 23 faces the second opening 14 of the game board 12 and the second window portion 9 of the print sheet 5.

[0033] Upon turning on the roulette game machine X, a game which is different from the roulette game is displayed on the display portion of the liquid crystal display 20. In this embodiment, images of plural window frames and reels are displayed.

[0034] The player then inserts a coin or medal into the medal insert portion 51 of the game machine body 1, then presses one of the bet buttons 45 based on the selection of the specific display thereon, and then presses the start button 48 to rotate the rotating member 23 by the driving power of the driving motor 38. The rotating speed of the rotating member 23 is controlled by the central processing unit so that the rotating member 23 slowly rotates and finally stops.

[0035] In a case where a design or symbol on which the player has bet, has come to the winning indicator 11 at the time when the rotating member 23 has stopped, the reels within the window frames on the liquid crystal display 20 are instantly and independently moved or changed. In a case where the slot machine game hits a winner after the thus displayed virtual reels have been changed, a winning point of the slot machine game is added to a winning point of the roulette game. The total number of medals at that time is indicated by blinking lamps (not shown) in the third window portion 10 of the game machine body 1.

[0036] As being apparent from the above description, the present invention produces the following effects:

- (1) Since the annular plate having the winning section of the rotating member lies in or faces the annular second opening, it is possible to produce a more real visual effect of the roulette game to the player.
- (2) Since there is no need to dispose plural blinking lamps so as to make them face the corresponding light passing holes unlike the conventional manner, the game machine can be easily assembled at low costs.
- (3) Since the liquid crystal display is mounted in the first opening of the game board, it is possible to build up a game based on the roulette game enhanced with

an additional game. Accordingly, the player may be able to have expectations to have a chance of winning in different view points, and be more excited.

(4) In an embodiment in which the rotating member comprises the annular plate and the umbrella-like frame that is fixedly mounted to the back side of the annular plate and formed so as to have an entire appearance similar to a frame of a shade of a fluorescent lamp or a frame of a bamboo basket, it is possible to reduce the weight of the rotating member and achieve reduced air resistance.

[Brief Description of the Drawings]

Fig. 1 is an explanatory view of an essential part of the roulette game machine of the present invention with a partly cut-out portion, as viewed from the front side. Fig. 2 is an explanatory view of the essential part of the roulette game machine of the present invention, as viewed from the back side.

Fig. 3 is a sectional view taken along a line 3-3 of Fig. 1.

Fig. 4 is a schematic explanatory view of the game board of the present invention.

Fig. 5 is a perspective view of the essential part of the present invention.

Fig. 6 is an explanatory view of the rotating member of the present invention.

[Description of the Reference Numerals]

X: roulette game machine, 1: game machine body, 2: housing, 3: transparent plate, 5: print sheet, 6: first window portion, 8: joint portions, 9: second window portion, 10: third window portion, 11: winning indicator, 12: game board, 13: first opening, 14: second opening, 15: third opening portion, 16: center portion, 18: joint portions, 20: liquid crystal display, 23: rotating member, 25: annular plate, 26: frame, 28: center board, 33: vibration-prevention pieces

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